

CASCED Controlled English Translation

Source file: 位置/倾角传感器/CDU4022电流双轴倾角传感器.pdf

Original diagrams and page relationships are retained in the paired source PDF. The following English text is the controlled translation and data transcription.

CDU4022 Ultra-High-Accuracy Dual-Axis Inclinometer

Model: CDU4022

Product family: Position and Presence Sensing

Category: Inclinometers



Overview

Ultra-high-accuracy MEMS dual-axis inclinometer with current output.

Features

- Dual-axis measurement
- 0–20 mA or 4–20 mA output
- Adjustable output rate and baud rate
- IP67 enclosure

Applications

- Bridge deflection monitoring
- Structural health monitoring
- Precision platform leveling
- Tunnel, dam, tower, and wind-turbine monitoring

Technical Specifications

Specification	Source value
Measurement ranges	$\pm 5^\circ$; $\pm 15^\circ$; $\pm 30^\circ$

Specification	Source value
Accuracy	0.001° at ±5°; 0.003° at ±15°; 0.005° at ±30°
Resolution	0.0005° under static conditions
Supply	10–35 VDC
Output	0–20 mA or 4–20 mA
Output rate	5–100 Hz adjustable
Models	CDU4022-30-420; CDU4022-30-020

Source-Control Status

Ready